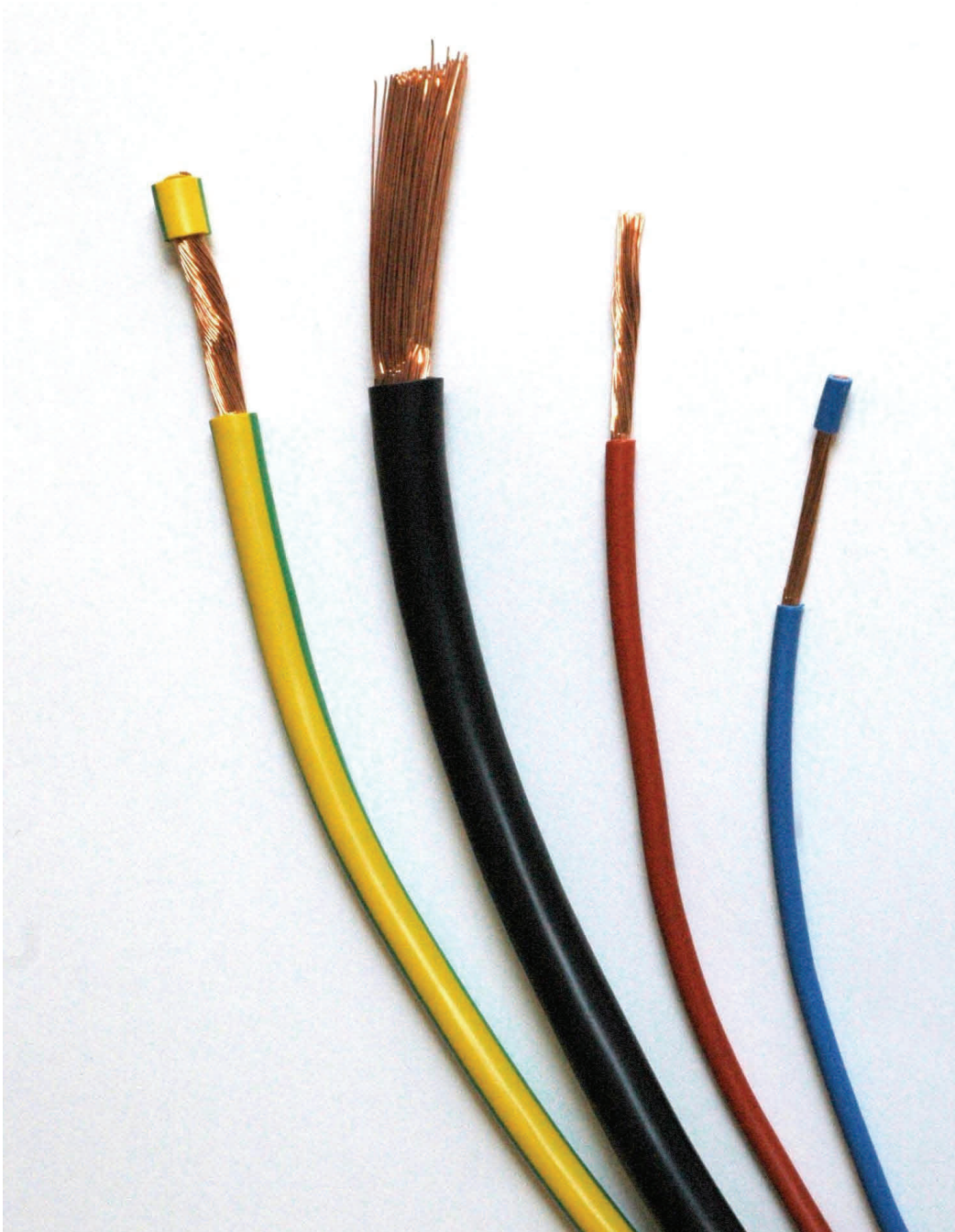


Mueller

Harmonized Hook-Up

& Lead Wire



Harmonized Lead Wire Contents

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H05V-K / H07V-K

<HAR>



H05V-K / H07V-K are our most standard harmonized PVC European flexible single-conductor hook-up wires. Ideal for the internal wiring of appliances, apparatus, switchboards, distributor boards and telecommunications devices. Found in electronic and electrical equipment and switchgear cabinets designed for export to a European country and for MRO replacement of European made equipment wire. Also found in the protective laying in and on lights.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Cores to VDE-0293 colors on chart
- H05V-K (20, 18 & 17 AWG)
- H07V-K (16 AWG and Larger)
- X05V-K & X07V-K for non-HAR colors

Technical:

- Working voltage: 300/500v (H05V-K)
- Working voltage: 450/750v (H07V-K)
- Test voltage: 2000/2500 volts
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 12.5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

Approvals:

- <HAR> HD 21.3 S3
- VDE-0281 Part-3
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2 30020**	1	.083" / 2.1mm	3	5
18 AWG (24/32) 0,75mm2 30018**	1	.094" / 2.4mm	5	8
17 AWG (32/32) 1,00mm2 30017**	1	.102" / 2.6mm	7	9
16 AWG (30/30) 1,50mm2 30016**	1	.122" / 3.1mm	9	13
14 AWG (50/30) 2,50mm2 30014**	1	.141" / 3.6mm	16	21
12 AWG (56/28) 4,0mm2 30012**	1	.169" / 4.3mm	25	31
10 AWG (84/28) 6,0mm2 30010**	1	.193" / 4.9mm	39	44
8 AWG (80/26) 10,0mm2 30008**	1	.251" / 6.4mm	64	76
6 AWG (128/26) 16,0mm2 30006**	1	.318" / 8.1mm	103	114
4 AWG (200/26) 25,0mm2 30004**	1	.386" / 9.8mm	161	174
2 AWG (280/26) 35,0mm2 30002**	1	.437" / 11.1mm	225	241
1 AWG (400/26) 50,0mm2 30001**	1	.515" / 13.1mm	322	345
2/0 AWG (356/24) 70,0mm2 30021**	1	.611" / 15.5mm	451	476
3/0 AWG (485/24) 95,0mm2 30031**	1	.667" / 17.2mm	612	630
4/0 AWG (614/24) 120,0mm2 30041**	1	.776" / 19.7mm	773	791
300 MCM (765/24) 150,0mm2 30030**	1	.611" / 15.5mm	966	993
350 MCM (944/24) 185,0mm2 30035**	1	.667" / 17.2mm	1191	1211
500 MCM (1225/24) 240,0mm2 30050**	1	.776" / 19.7mm	1545	1576

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 10 - Transparent (Non HAR)
- 11 - Yellow (Non HAR)
- 12 - Green (Non HAR)
- 13 - Beige
- 14 - Dark Blue (RAL5010)
- 15 - Marine Blue (RAL5002)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3002000 - H05V-K, 20 AWG (0,50mm2) Green/Yellow, OR 3001403 - H07V-K, 14 AWG (2,50mm2) Brown

* Additional AWG sizes & colors may be available.

H07V-R



H07V-R is a harmonized PVC European single-conductor hook-up wire with a class 2 strand. Ideal for the internal wiring of appliances and apparatus. Intended for use in semi-flush exposed conduits and embedded conduits as well as in closed installations ducts. Can be used in switchboards and distributor boards or where a thicker strand of multi-wire is required. Found in electronic and electrical equipment and switchgear cabinets designed for export to a European country and for MRO replacement of European made equipment wire.



Construction:

- Bare copper strands
- Strands to VDE-0295 Class-2, IEC 60228 Cl-2
- Special PVC core insulation
- Cores to VDE-0293 colors on chart

Technical:

- Working voltage: 450/750 volts
- Test voltage: 2500 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 15 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

Approvals:

- <HAR> HD 21.3 S3
- VDE-0281 Part-3
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
6 AWG (7/14) 16,0mm ² 30106**	1	.307" / 7.8mm	103	117
4 AWG (7/12) 25,0mm ² 30104**	1	.382" / 9.7mm	161	184
2 AWG (7/10) 35,0mm ² 30102**	1	.429" / 10.9mm	225	248
1 AWG (19/13) 50,0mm ² 30101**	1	.504" / 12.8mm	322	335
2/0 AWG (19/11) 70,0mm ² 30121**	1	.575" / 14.6mm	451	476
3/0 AWG (19/10) 95,0mm ² 30131**	1	.673" / 17.1mm	612	651
4/0 AWG (37/12) 120,0mm ² 30141**	1	.740" / 18.8mm	773	805
300 MCM (37/11) 150,0mm ² 30130**	1	.823" / 20.9mm	966	986
350 MCM (37/10) 185,0mm ² 30135**	1	.917" / 23.3mm	1191	1245
500 MCM (61/11) 240,0mm ² 30150**	1	1.050" / 26.6mm	1545	1612

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. 3012100 - H07V-R, 2/0 AWG (70,0mm²) Green/Yellow

* Additional AWG sizes & colors are available.

H05V-U / H07V-U



H05V-U / H07V-U are harmonized PVC European flexible single-conductor hook-up wires with a solid bare copper core. Ideal for the internal wiring of appliances, apparatus, switchboards and distributor boards or where a solid core is required. Suitable in dry rooms for fixed and flexible laying. May be used for exposed and embedded conduits. Found in electronic and electrical equipment and switchgear cabinets designed for export to a European country and for MRO replacement of European made equipment wire.



Construction:

- Solid bare copper single wire
- Solid to VDE-0295 Class-1, IEC 60228 Cl-1
- Special PVC core insulation
- Cores to VDE-0293 colors on chart
- H05V-U (20, 18 & 17 AWG)
- H07V-U (16 AWG and Larger)

Technical:

- Working voltage: 300/500v (H05V-U)
- Working voltage: 450/750v (H07V-U)
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 15 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

Approvals:

- <HAR> HD 21.3 S3
- VDE-0281 Part-3
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (Solid) 0,50mm ² 30220**	1	.090" / 2.3mm	3	5
18 AWG (Solid) 0,75mm ² 30218**	1	.098" / 2.5mm	5	7
17 AWG (Solid) 1,00mm ² 30217**	1	.106" / 2.7mm	7	9
16 AWG (Solid) 1,50mm ² 30216**	1	.125" / 3.2mm	10	14
14 AWG (Solid) 2,50mm ² 30214**	1	.153" / 3.9mm	16	21
12 AWG (Solid) 4,0mm ² 30212**	1	.173" / 4.4mm	25	31
10 AWG (Solid) 6,0mm ² 30210**	1	.201" / 5.1mm	39	44
8 AWG (Solid) 10,0mm ² 30208**	1	.252" / 6.4mm	64	74

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.

i.e. - 3022002 - H05V-U, 20 AWG (0,50mm²) Blue, OR 3021003 - H07V-U, 10 AWG (6,0mm²) Brown

* Additional AWG sizes & colors are available.

H05V2-K / H07V2-K

<HAR>



H05V2-K / H07V2-K are harmonized special heat-resistant European flexible single-conductor hook-up wires with increased temperature range. Ideal for use in power current installations, switch cabinets, motors and transformers subject to direct contact with high temperatures in varnishing machines and drying towers. Also suitable for the internal of wiring of electrical equipments such as lighting and heating apparatus. This wire is NOT suitable for direct laying on trays and racks.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special heat resistant core insulation
- Cores to VDE-0293 colors on chart
- H05V2-K (20, 18 & 17 AWG)
- H07V2-K (16 AWG and Larger)
- X05V2-K & X07V2-K for non-HAR colors

Technical:

- Working voltage: 300/500v (H05V2-K)
- Working voltage: 450/750v (H07V2-K)
- Test voltage: 2000 volts
- Flexing bending radius: 10-15 x Ø
- Static bending radius: 10-15 x Ø
- Flexing temp: +5° C to +90° C
- Static temp: -10° C to +105° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- <HAR> HD 21.7 S2
- VDE-0281 Part-7
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2 30320**	1	.098" / 2.5mm	3	6
18 AWG (24/32) 0,75mm2 30318**	1	.106" / 2.7mm	5	8
17 AWG (32/32) 1,00mm2 30317**	1	.110" / 2.8mm	7	9
16 AWG (30/30) 1,50mm2 30316**	1	.134" / 3.4mm	9	13
14 AWG (50/30) 2,50mm2 30314**	1	.161" / 4.1mm	16	22
12 AWG (56/28) 4,0mm2 30312**	1	.189" / 4.8mm	25	32
10 AWG (84/28) 6,0mm2 30310**	1	.209" / 5.3mm	39	46
8 AWG (80/26) 10,0mm2 30308**	1	.268" / 6.8mm	64	77
6 AWG (128/26) 16,0mm2 30306**	1	.319" / 8.1mm	103	114
4 AWG (200/26) 25,0mm2 30304**	1	.402" / 10.2mm	161	181
2 AWG (280/26) 35,0mm2 30302**	1	.461" / 11.7mm	225	246
1 AWG (400/26) 50,0mm2 30301**	1	.547" / 13.9mm	322	349
2/0 AWG (356/24) 70,0mm2 30321**	1	.630" / 16.0mm	451	489
3/0 AWG (485/24) 95,0mm2 30331**	1	.717" / 18.2mm	612	645
4/0 AWG (614/24) 120,0mm2 30341**	1	.795" / 20.2mm	748	828
300 MCM (765/24) 150,0mm2 30330**	1	.886" / 22.5mm	966	1022
350 MCM (944/24) 185,0mm2 30335**	1	.980" / 24.9mm	1191	1241
500 MCM (1225/24) 240,0mm2 30350**	1	1.118" / 28.4mm	1545	1630

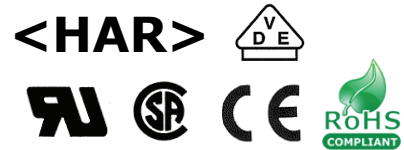
Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 11 - Yellow (Non HAR)
- 12 - Green (Non HAR)
- 13 - Beige
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3031801 - H05V2-K, 18 AWG (0,75mm2) Black, OR 3031603 - H07V2-K, 16 AWG (1,50mm2) Brown

* Additional AWG sizes & colors may be available.

H05V-K UL / H07V-K UL



H05VK UL / H07V-K UL are internationally approved harmonized, UL/CSA and AWM/MTW approved PVC European flexible single-conductor wires. Can be found in appliance wiring and machine tool wiring as well as in control systems. They may also be used in pipes and flexible conduits. Recommended for the internal wiring of apparatus, switchboards and distributor boards in electronic and electrical equipment designed for international use in North American & European countries and for MRO replacement of international made equipment wire.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Cores to VDE-0293 colors on chart
- H05V-K UL (22, 20 & 18 AWG)
- H07V-K UL (16 AWG and Larger)
- X05V-K UL & X07V-K UL for non-HAR colors

Technical:

- Working voltage: 300/500v (H05V-K UL)
- Working voltage: 450/750v (H07V-K UL)
- Working voltage UL/CSA: 600v AC, 750v DC.
- Test voltage: 2500 volts
- Flexing/Static bending radius: 10-15 x Ø
- Temp HAR/IEC: -40° to +70° C
- Temp UL-AWM: -40° to +105° C
- Temp UL-MTW: -40° C to +90° C
- Temp CSA-TEW: -40° C to +105° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

Approvals:

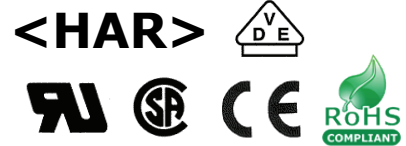
- UL-Standard 1063 MTW
- UL-AWM Style 1015
- CSA TEW
- CSA-AWM I A/B, FT-1
- <HAR> HD 21.7 S2
- VDE-0281 Part-3
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
22 AWG (16/32) 0,50mm2 35022**	1	.098" / 2.5mm	3	7
20 AWG (24/32) 0,75mm2 35020**	1	.106" / 2.7mm	5	9
18 AWG (32/32) 1,00mm2 35018**	1	.114" / 2.9mm	7	11
16 AWG (30/30) 1,50mm2 35016**	1	.122" / 3.1mm	9	13
14 AWG (50/30) 2,50mm2 35014**	1	.145" / 3.7mm	16	21
12 AWG (56/28) 4,0mm2 35012**	1	.173" / 4.4mm	25	30
10 AWG (84/28) 6,0mm2 35010**	1	.193" / 4.9mm	39	42
8 AWG (80/26) 10,0mm2 35008**	1	.267" / 6.8mm	64	80
6 AWG (128/26) 16,0mm2 35006**	1	.350" / 8.9mm	103	124
4 AWG (200/26) 25,0mm2 35004**	1	.397" / 10.1mm	161	174
2 AWG (280/26) 35,0mm2 35002**	1	.448" / 11.4mm	225	241
1 AWG (400/26) 50,0mm2 35001**	1	.555" / 14.1mm	322	359
2/0 AWG (356/24) 70,0mm2 35021**	1	.622" / 15.8mm	451	493
3/0 AWG (485/24) 95,0mm2 35031**	1	.712" / 18.1mm	612	624
4/0 AWG (614/24) 120,0mm2 35041**	1	.768" / 19.5mm	773	789

Color Code Chart
00 - Green/Yellow
01 - Black
02 - Blue (RAL5015)
03 - Brown
04 - Red
05 - White
06 - Gray
07 - Violet
08 - Pink
09 - Orange
10 - Transparent (Non HAR)
11 - Yellow (Non HAR)
12 - Green (Non HAR)
13 - Beige
14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3502001 - H05V-K UL, 20 AWG (0,75mm2) Black, OR 3500602 - H07V-K UL, 6 AWG (16,0mm2) Blue
* Additional AWG sizes & colors may be available.

H05V2-K UL / H07V2-K UL



H05V2-K UL / H07V2-K UL are internationally approved harmonized, UL/CSA and AWM/MTW approved PVC European flexible single-conductor wires with increased temperature range for HAR/IEC and higher working voltage for UL-AWM. Due to these increases it is suitable for use in connections and internal wirings of frequency converters. Can be found in appliance wiring and machine tool wiring as well as in control systems. They may also be used in pipes and flexible conduits. Recommended for the internal wiring of apparatus, switchboards and distributor boards in electronic and electrical equipment designed for international use in North American & European countries and for MRO replacement of international made equipment wire.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Cores to VDE-0293 colors on chart
- H05V2-K UL (22, 20 & 18 AWG)
- H07V2-K UL (16 AWG and Larger)
- X05V2-K UL & X07V2-K UL for non-HAR colors

Technical:

- Working voltage: 300/500v (H05V2-K UL)
- Working voltage: 450/750v (H07V2-K UL)
- Working voltage UL(MTW) & CSA: 600v
- Working voltage UL (AWM): 1000v
- Test voltage: 2500 volts (4000 volts UL)
- Flexing/Static bending radius: 10-15 x Ø
- Temp HAR/IEC: -40° to +90° C
- Temp UL-AWM: -40° to +105° C
- Temp UL-MTW: -40° C to +90° C
- Temp CSA-TEW: -40° C to +105° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL-Standard 1063 MTW
- UL-AWM Style 10269
- CSA TEW
- CSA-AWM 1 A/B, FT-1
- <HAR> HD 21.7 S2
- <HAR> H05V2-K / H07V2-K
- VDE-0281 Part-3
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
22 AWG (16/32) 0,50mm2 35122**	1	.098" / 2.5mm	3	7
20 AWG (24/32) 0,75mm2 35120**	1	.106" / 2.7mm	5	9
18 AWG (32/32) 1,00mm2 35118**	1	.114" / 2.9mm	7	11
16 AWG (30/30) 1,50mm2 35116**	1	.122" / 3.1mm	9	13
14 AWG (50/30) 2,50mm2 35114**	1	.145" / 3.7mm	16	21
12 AWG (56/28) 4,0mm2 35112**	1	.173" / 4.4mm	25	30
10 AWG (84/28) 6,0mm2 35110**	1	.193" / 4.9mm	39	42
8 AWG (80/26) 10,0mm2 35108**	1	.267" / 6.8mm	64	80
6 AWG (128/26) 16,0mm2 35106**	1	.350" / 8.9mm	103	124
4 AWG (200/26) 25,0mm2 35104**	1	.397" / 10.1mm	161	174
2 AWG (280/26) 35,0mm2 35102**	1	.448" / 11.4mm	225	241
1 AWG (400/26) 50,0mm2 35101**	1	.555" / 14.1mm	322	359
2/0 AWG (356/24) 70,0mm2 35121**	1	.622" / 15.8mm	451	493
3/0 AWG (485/24) 95,0mm2 35131**	1	.712" / 18.1mm	621	624
4/0 AWG (614/24) 120,0mm2 35141**	1	.768" / 19.5mm	773	778

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 10 - Transparent (Non HAR)
- 11 - Yellow (Non HAR)
- 12 - Green (Non HAR)
- 13 - Beige
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3512002 - H05V2-K UL, 20 AWG (0,75mm2) Blue, OR 3500803 - H07V2-K UL, 8 AWG (10,0mm2) Brown

* Additional AWG sizes & colors may be available.

H05Z-K / H07Z-K



H05Z-K / H07Z-K are our standard harmonized halogen-free European flexible single-conductor lead wires. Recommended for use in dry environments for the wiring of lighting fixtures, appliances and units where valuable assets are to be protected from future damage of fire, smoke and corrosive gas. Designed for the internal wiring of switchboards and distributor boards with an alternating nominal voltage up to 1000 Volts or a direct voltage up to 750 volts. The low smoke, zero halogen cable may be installed on, in or beneath plaster and in closed installation ducts.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Cross-link polyolefin core insulation
- Cores to VDE-0293 colors on chart
- **LS0H** - low smoke, zero halogen
- H05Z-K (20, 18 & 17 AWG)
- H07Z-K (16 AWG and Larger)
- X05Z-K & X07Z-K for non-HAR colors

Technical:

- Working voltage: 300/500v (H05Z-K)
- Working voltage: 450/750v (H07Z-K)
- Test voltage: 2500 volts
- Flexing bending radius: 8 x Ø
- Static bending radius: 8 x Ø
- Flexing temp: -15° C to +90° C
- Static temp: -40° C to +90° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

Approvals:

- <HAR> HD 22.9 S2
- VDE-0282 Part-9
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2 32020**	1	.090" / 2.3mm	3	6
18 AWG (24/32) 0,75mm2 32018**	1	.098" / 2.5mm	5	8
17 AWG (32/32) 1,00mm2 32017**	1	.102" / 2.6mm	7	10
16 AWG (30/30) 1,50mm2 32016**	1	.138" / 3.5mm	9	16
14 AWG (50/30) 2,50mm2 32014**	1	.157" / 4.0mm	16	24
12 AWG (56/28) 4,0mm2 32012**	1	.188" / 4.8mm	25	34
10 AWG (84/28) 6,0mm2 32010**	1	.236" / 6.0mm	39	47
8 AWG (80/26) 10,0mm2 32008**	1	.264" / 6.7mm	64	79
6 AWG (128/26) 16,0mm2 32006**	1	.322" / 8.2mm	103	121
4 AWG (200/26) 25,0mm2 32004**	1	.401" / 10.2mm	161	186
2 AWG (280/26) 35,0mm2 32002**	1	.452" / 11.5mm	225	251
1 AWG (400/26) 50,0mm2 32001**	1	.535" / 13.6mm	322	376
2/0 AWG (356/24) 70,0mm2 32021**	1	.630" / 16.0mm	451	523
3/0 AWG (485/24) 95,0mm2 32031**	1	.724" / 18.4mm	612	639
4/0 AWG (614/24) 120,0mm2 32041**	1	.799" / 20.3mm	773	805
300 MCM (765/24) 150,0mm2 32030**	1	.894" / 22.7mm	966	1009
350 MCM (944/24) 185,0mm2 32035**	1	.996" / 25.3mm	1191	1238
500 MCM (1225/24) 240,0mm2 32050**	1	1.114" / 28.3mm	1545	1610

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 11 - Yellow (Non HAR)
- 12 - Green (Non HAR)
- 14 - Dark Blue (RAL5010)

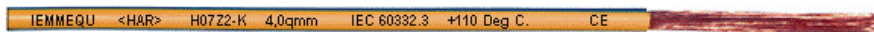
Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3202002 - H05Z-K, 20 AWG (0,50mm2) Green/Yellow, OR 3200602 - H07Z-K, 6 AWG (16,0mm2) Blue
* Additional AWG sizes are available.

H05Z2-K / H07Z2-K

<HAR>



H05Z2-K / H07Z2-K are harmonized halogen-free European flexible single-conductor wires with better flame protection and a higher temperature range. Recommended for use in dry environments for the wiring of lighting fixtures, appliances and units where valuable assets are to be protected from future damage of fire, smoke and corrosive gas. Designed for the internal wiring of switchboards, distributor boards with an alternating nominal voltage up to 1000 Volts or a direct voltage up to 750 volts. The low smoke, zero halogen jacket gives this cable improved flame protection to IEC 60332.3 and higher temperature ratings of up to +110 Degree C. These cables may be installed on, in or beneath plaster and in closed installation ducts. Also suitable for use in means of transportation as in railway cars when direct operating voltage is 900 volts against the ground.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Halogen-free core insulation
- Cores to VDE-0293 colors on chart
- **LS0H** - low smoke, zero halogen
- H05Z2-K (20, 18 & 17 AWG)
- H07Z2-K (16 AWG and Larger)
- X05Z2-K & X07Z2-K for non-HAR colors

Technical:

- Working voltage: 300/500v (H05Z2-K)
- Working voltage: 450/750v (H07Z2-K)
- Test voltage: 3500 volts
- Flexing bending radius: 8 x Ø
- Static bending radius: 8 x Ø
- Flexing temp: -25° C to +110° C
- Static temp: -40° C to +110° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 10 MΩ x km

Approvals:

- <HAR> HD 22.9 S2
- VDE-0282 Part-9
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm ² 32120**	1	.090" / 2.3mm	3	6
18 AWG (24/32) 0,75mm ² 32118**	1	.098" / 2.5mm	5	8
17 AWG (32/32) 1,00mm ² 32117**	1	.102" / 2.6mm	7	10
16 AWG (30/30) 1,50mm ² 32116**	1	.138" / 3.5mm	9	16
14 AWG (50/30) 2,50mm ² 32114**	1	.157" / 4.0mm	16	24
12 AWG (56/28) 4,0mm ² 32112**	1	.188" / 4.8mm	25	34
10 AWG (84/28) 6,0mm ² 32110**	1	.236" / 6.0mm	39	47
8 AWG (80/26) 10,0mm ² 32108**	1	.264" / 6.7mm	64	79
6 AWG (128/26) 16,0mm ² 32106**	1	.322" / 8.2mm	103	121
4 AWG (200/26) 25,0mm ² 32104**	1	.401" / 10.2mm	161	186
2 AWG (280/26) 35,0mm ² 32102**	1	.452" / 11.5mm	225	251
1 AWG (400/26) 50,0mm ² 32101**	1	.535" / 13.6mm	322	376
2/0 AWG (356/24) 70,0mm ² 32121**	1	.630" / 16.0mm	451	523
3/0 AWG (485/24) 95,0mm ² 32131**	1	.724" / 18.4mm	612	639
4/0 AWG (614/24) 120,0mm ² 32141**	1	.799" / 20.3mm	773	805

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 11 - Yellow (Non HAR)
- 12 - Green (Non HAR)
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3211800 - H05Z2-K, 18 AWG (0,75mm²) Green/Yellow, OR 3210802 - H07Z2-K, 8 AWG (10,0mm²) Blue
* Additional AWG sizes are available.

H05G-K / H07G-K

<HAR>



H05G-K / H07G-K are harmonized heat-resistant rubber European flexible single-conductor wires. Recommended for the internal wiring of switchboards and distributor boards as well as in operating parts in or on lights. The higher temperature range allows for connections to heaters with an alternating nominal voltage of 1000V. or direct nominal voltage of 750V. These cables are all allowed for laying in tubes in and under plaster.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special rubber core insulation
- Cores to VDE-0293 colors on chart
- H05G-K (20, 18 & 17 AWG)
- H07G-K (16 AWG and Larger)
- X05G-K & X07G-K for non-HAR colors

Technical:

- Working voltage: 300/500v (H05G-K)
- Working voltage: 450/750v (H07G-K)
- Test voltage: 2000/2500 volts
- Flexing bending radius: 7 x Ø
- Static bending radius: 7 x Ø
- Flexing temp: -25° C to +110° C
- Static temp: -40° C to +110° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

Approvals:

- <HAR> HD 22.7 S2
- VDE-0282 Part-7
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2 31020**	1	.091" / 2.3mm	3	9
18 AWG (24/32) 0,75mm2 31018**	1	.102" / 2.6mm	5	11
17 AWG (32/32) 1,00mm2 31017**	1	.110" / 2.8mm	7	15
16 AWG (30/30) 1,50mm2 31016**	1	.134" / 3.4mm	9	16
14 AWG (50/30) 2,50mm2 31014**	1	.161" / 4.1mm	16	28
12 AWG (56/28) 4,0mm2 31012**	1	.201" / 5.1mm	25	41
10 AWG (84/28) 6,0mm2 31010**	1	.217" / 5.5mm	39	52
8 AWG (80/26) 10,0mm2 31008**	1	.268" / 6.8mm	64	87
6 AWG (128/26) 16,0mm2 31006**	1	.331" / 8.4mm	103	142
4 AWG (200/26) 25,0mm2 31004**	1	.390" / 9.9mm	161	217
2 AWG (280/26) 35,0mm2 31002**	1	.449" / 11.4mm	225	283
1 AWG (400/26) 50,0mm2 31001**	1	.520" / 13.2mm	322	353
2/0 AWG (356/24) 70,0mm2 31021**	1	.606" / 15.4mm	451	487
3/0 AWG (485/24) 95,0mm2 31031**	1	.677" / 17.2mm	612	628
4/0 AWG (614/24) 120,0mm2 31041**	1	.776" / 19.7mm	773	800

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 11 - Yellow (Non HAR)
- 12 - Green (Non HAR)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.

i.e. - 3102003 - H05G-K, 20 AWG (0,50mm2) Brown, OR 3101405 - H07G-K, 14 AWG (2,50mm2) White

* Additional AWG sizes & colors may be available.

LiY (LiYv) VDE single-core



LiY (LiYv) is a 80 Deg. C. flexible VDE approved PVC hook-up wire recommended for the connection of low voltage applications, communications apparatus, electronic assemblies, equipment, racks and switchboards. These stranded hook-up wires are not permitted to be installed in heavy current applications outside of the equipment.



Construction:

- Tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Cores to VDE-0293 colors on chart

Technical:

- Working voltage: 500v (26 AWG)
- Working voltage: 900v (24 AWG and up)
- Test voltage: 1200v (26 AWG)
- Test voltage: 2500v (24 AWG and up)
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 12.5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0812
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
26 AWG (18/38) 0,14mm2 33026**	1	.039" / 1.0mm	1	1
24 AWG (14/34) 0,25mm2 33024**	1	.051" / 1.3mm	2	2
22 AWG (19/34) 0,34mm2 33022**	1	.055" / 1.4mm	2	3
20 AWG (16/32) 0,50mm2 33020**	1	.071" / 1.8mm	3	5
18 AWG (24/32) 0,75mm2 33018**	1	.078" / 2.0mm	5	8
17 AWG (32/32) 1,00mm2 33017**	1	.082" / 2.1mm	7	12
16 AWG (30/30) 1,50mm2 33016**	1	.102" / 2.6mm	9	15
14 AWG (50/30) 2,50mm2 33014**	1	.126" / 3.2mm	16	25

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 10 - Transparent
- 11 - Yellow
- 12 - Green
- 13 - Beige
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number. i.e. - 3302412 - LiY, 24 AWG (0,25mm2) Green

* Additional AWG sizes & colors may be available.

LiYv-t VDE single-core +105 Deg C.



LiYv-t is a 105 Deg. C. flexible VDE approved improved heat resistant PVC hook-up wire recommended for the connection of low voltage applications, communications apparatus, electronic assemblies, equipment, racks and switchboards. These stranded hook-up wires are not permitted to be installed in heavy current applications outside of the equipment.



Construction:

- Tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special heat-resistant PVC core insulation
- Cores to VDE-0293 colors on chart

Technical:

- Working voltage: 500v (26 AWG)
- Working voltage: 900v (24 AWG and up)
- Test voltage: 1200v (26 AWG)
- Test voltage: 2500v (24 AWG and up)
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 12.5 x Ø
- Flexing temp: -5° C to +105° C
- Static temp: -10° C to +105° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0812
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
26 AWG (18/38) 0,14mm2 33426**	1	.043" / 1.1mm	1	1
24 AWG (14/34) 0,25mm2 33424**	1	.051" / 1.3mm	2	3
22 AWG (19/34) 0,34mm2 33422**	1	.067" / 1.7mm	3	5
20 AWG (16/32) 0,50mm2 33420**	1	.079" / 2.0mm	4	6
18 AWG (24/32) 0,75mm2 33418**	1	.087" / 2.2mm	5	8
17 AWG (32/32) 1,00mm2 33417**	1	.098" / 2.5mm	7	12
16 AWG (30/30) 1,50mm2 33416**	1	.114" / 2.9mm	10	15
14 AWG (50/30) 2,50mm2 33414**	1	.142" / 3.6mm	16	25

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 10 - Transparent
- 11 - Yellow
- 12 - Green
- 13 - Beige
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number. i.e. - 3342212 - LiYv-t, 22 AWG (0,34mm2) Green

* Additional AWG sizes & colors may be available.

LiYW VDE single-core +105 Deg C.



LiYW is a 105 Deg. C. flexible VDE approved PVC hook-up wire with increased heat resistance. LiYW is recommended for the connection of low voltage applications, communications apparatus, electronic assemblies, equipment, racks and switchboards. These cables are also suitable for inside wiring of electrical equipments such as lighting and heating apparatus.



Construction:

- Bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special heat-resistant core insulation
- Cores to VDE-0293 colors on chart

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 12.5 x Ø
- Flexing temp: +5° C to +105° C
- Static temp: -10° C to +105° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0281 Part-7
- adapted to H05V2-K specs
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
26 AWG (18/38) 0,14mm2 33626**	1	.039" / 1.0mm	1	2
24 AWG (14/34) 0,25mm2 33624**	1	.051" / 1.3mm	2	3
22 AWG (19/34) 0,34mm2 33622**	1	.055" / 1.4mm	3	4
20 AWG (16/32) 0,50mm2 33620**	1	.071" / 1.8mm	4	5

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number. i.e. - 3362404 - LiYW, 24 AWG (0,25mm2) Red

** For sizes larger than 20 AWG (0,50mm2) please see our H05V2-K / H07V2-K (303) Series.

* Additional AWG sizes & colors may be available.

LiFY super flexible - 1 kV



LiFY is a super flexible, 1000 volts, VDE approved, PVC single conductor lead wire. These highly flexible cores are used as connecting cores on appliances often moved place to place, portable measuring assemblies in the field of technical education and for rapid temporary installations of testing appliances and equipment.



Construction:

- Super-fine bare copper strands
- Strands to VDE-0295 Class 6, IEC 60228 Cl-6
- Special PVC core insulation
- Cores to VDE-0293 colors on chart

Technical:

- Working voltage: 1000 volts
- Test voltage: 3000 volts
- Flexing bending radius: 5 x Ø
- Static bending radius: 10 x Ø
- Flexing temp: -15° C to +80° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0250, 0281, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
26 AWG (72/42) 0,14mm2 33260**	1	.043" / 1.1mm	1	1
24 AWG (65/40) 0,25mm2 33240**	1	.055" / 1.4mm	2	3
20 AWG (132/40) 0,50mm2 33220**	1	.078" / 2.0mm	3	5
18 AWG (195/40) 0,75mm2 33218**	1	.086" / 2.2mm	5	8
17 AWG (260/40) 1,00mm2 33217**	1	.098" / 2.5mm	7	12
16 AWG (192/38) 1,50mm2 33216**	1	.137" / 3.5mm	10	15
14 AWG (320/38) 2,50mm2 33214**	1	.149" / 3.8mm	17	25
12 AWG (512/38) 4,0mm2 33212**	1	.201" / 5.1mm	27	34
10 AWG (768/38) 6,0mm2 33210**	1	.256" / 6.5mm	40	48
8 AWG (1280/38) 10,0mm2 33208**	1	.295" / 7.5mm	67	87
6 AWG (2048/38) 16,0mm2 33206**	1	.358" / 9.1mm	107	125
4 AWG (3234/38) 25,0mm2 33204**	1	.413" / 10.5mm	161	197
2 AWG (4508/38) 35,0mm2 33202**	1	.461" / 11.7mm	225	255
1 AWG (6468/38) 50,0mm2 33201**	1	.583" / 14.8mm	322	349
2/0 AWG (8967/38) 70,0mm2 33221**	1	.669" / 17.0mm	451	496

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 11 - Yellow
- 12 - Green
- 13 - Beige

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.

i.e. - 3321804 - LiFY, 18 AWG (0,75mm2) Red

* Additional AWG sizes are available.

PUR-SINGLE polyurethane - 1kV



PUR-SINGLE is a European, 1000 volt, VDE approved, polyurethane flexible single-conductor wire. Recommended for installation in switch cabinets, cable assemblies and electronic equipment. Also well suited for installation in inductive loop signaling equipment and other installations requiring zero halogen and added resistance to mechanical stress. The rugged halogen-free PUR jacket makes this single core resistant to oil, petrol, sea water, waste water, acids, lye and UV radiation.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special polyurethane core insulation
- Cores to VDE-0293 colors on chart

Technical:

- Working voltage: 1000 volts
- Test voltage: 3500v for 15 minutes
- Flexing bending radius: 5 x Ø
- Static bending radius: 10 x Ø
- Flexing temp: -30° C to +80° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

Approvals:

- VDE-0281
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2 34020**	1	.087" / 2.2mm	3	5
18 AWG (24/32) 0,75mm2 34018**	1	.094" / 2.4mm	5	7
17 AWG (32/32) 1,00mm2 34017**	1	.102" / 2.6mm	7	9
16 AWG (30/30) 1,50mm2 34016**	1	.118" / 3.0mm	9	13
14 AWG (50/30) 2,50mm2 34014**	1	.146" / 3.7mm	16	21
12 AWG (56/28) 4,0mm2 34012**	1	.169" / 4.3mm	25	30
10 AWG (84/28) 6,0mm2 34010**	1	.201" / 5.1mm	39	44
8 AWG (80/26) 10,0mm2 34008**	1	.268" / 6.8mm	64	77
6 AWG (128/26) 16,0mm2 34006**	1	.307" / 7.8mm	103	124
4 AWG (200/26) 25,0mm2 34004**	1	.398" / 10.1mm	161	187
2 AWG (280/26) 35,0mm2 34002**	1	.449" / 11.4mm	225	245
1 AWG (400/26) 50,0mm2 34001**	1	.520" / 13.2mm	322	335
2/0 AWG (356/24) 70,0mm2 34021**	1	.606" / 15.4mm	451	463
3/0 AWG (485/24) 95,0mm2 34031**	1	.697" / 17.7mm	612	624
4/0 AWG (614/24) 120,0mm2 34041**	1	.756" / 19.2mm	733	754
300 MCM (765/24) 150,0mm2 340300**	1	.866" / 22.0mm	966	999

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 10 - Transparent
- 11 - Yellow
- 12 - Green
- 13 - Beige
- 14 - Dark Blue (RAL5010)

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.
i.e. - 3402003 - PUR, 20 AWG (0,50mm2) Brown.

* Additional AWG sizes & colors may be available.